

Please add the following abstract:

ABSTRACT

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The present invention provides a microorganism for the production of 1,3-propanediol from a variety of carbon sources in an organism capable of 1,3-propanediol production and comprising a) at least one gene encoding a dehydratase activity; b) at least one gene encoding a glycerol-3-phosphatase; and c) at least one gene encoding protein X. The protein X may be derived from a Klebsiella or Citrobacter gene cluster. The recombinant microorganism may further comprise d) at least one gene encoding a protein having at least 50% similarity to a protein selected from the group consisting of protein 1 (SEQ ID NO:60 or SEQ ID NO:61), of protein 2 (SEQ ID NO:62 or SEQ ID NO:63) and of protein 3 (SEQ ID NO:64 or SEQ ID NO:65) from Klebsiella or Citrobacter.